

## Envelope Component Approach

NRCC-ENV-E (Created 10/18)

CALIFORNIA ENERGY COMMISSION



## CERTIFICATE OF COMPLIANCE

NRCC-ENV-E

*This document is used to demonstrate compliance with mandatory requirements in [§120.7\(b\)](#) for newly constructed buildings, and [§141.0\(b\)1](#) for alterations, related to roof, wall and floor assemblies. It is also used to demonstrate compliance with prescriptive requirements in [§140.3](#) for newly constructed buildings, and [§141.0](#) for additions and alterations, related to roof, wall, floor, door, fenestration and daylighting requirements.*

Project Name:	Report Page:	Page # of ##
Project Address:	Date Prepared:	

## A. GENERAL INFORMATION



01	Project Location (city)	05	# of Stories (Habitable Above Grade)
02	Zipcode	06	Total Conditioned Floor Area (ft <sup>2</sup> )
03	Climate Zone	07	Total Unconditioned Floor Area (ft <sup>2</sup> )
04	Occupancy Types Within Project (select all that apply): If one occupancy constitutes ≥ 80% of the conditioned floor area, the entire building envelope may be designed to comply with the provisions of that occupancy per <a href="#">§100.0(f)</a> .	08	<input type="checkbox"/> Project includes unconditioned enclosed space(s) > 5,000ft <sup>2</sup> under a roof with a ceiling height of at least 15ft. <sup>1</sup>
<input type="checkbox"/> All Nonresidential, including Relocatable Public School Building certified for use in one climate zone Occupancy: A / B / E / F / H / M / S / U		<input type="checkbox"/> Relocatable Public School Building for use in all climate zones Occupancy: E	
		<input type="checkbox"/> High-Rise Residential Occupancy: R-2 / R-3	
		<input type="checkbox"/> Hotel/Motel Guest Rooms Occupancy: R-1	

<sup>1</sup> FOOTNOTE: Enclosed spaces > 5,000 ft<sup>2</sup> directly under roof with ceiling height > 15ft in climate zones 2 through 15 are required to meet the minimum daylighting requirements defined in [§140.3\(c\)](#). Compliance with [§140.3\(c\)](#) is documented in Table L. This is the only prescriptive requirement which applies to unconditioned spaces.

## B. PROJECT SCOPE



Table Instructions: Include any building envelopes that are within the scope of the permit application and are demonstrating compliance using the prescriptive paths outlined in [§140.3](#), and [§141.0\(a\)1](#) and [§141.0\(b\)1 and 2](#) for additions and alterations.

My project consists of (check all that apply)	Component Types		
01	02		
<input type="checkbox"/> New Construction or Newly Conditioned Space	<input type="checkbox"/> Roof	<input type="checkbox"/> Walls	<input type="checkbox"/> Exterior Doors
<input type="checkbox"/> One or more enclosed spaces > 5,000 ft <sup>2</sup> directly under roof with ceiling height > 15ft		<input type="checkbox"/> Floors	<input type="checkbox"/> Fenestration/Glazed Door
<input type="checkbox"/> Addition of conditioned space	<input type="checkbox"/> Roof	<input type="checkbox"/> Walls	<input type="checkbox"/> Exterior Doors
<input type="checkbox"/> One or more enclosed spaces > 5,000 ft <sup>2</sup> directly under roof with ceiling height > 15ft		<input type="checkbox"/> Floors	<input type="checkbox"/> Fenestration/Glazed Door
<input type="checkbox"/> Alteration of conditioned space	<input type="checkbox"/> Roof Assembly	<input type="checkbox"/> Walls	Exterior Doors NA for Alts.
<input type="checkbox"/> One or more enclosed spaces > 5,000 ft <sup>2</sup> directly under roof with ceiling height > 15ft and lighting system installed for the first time	<input type="checkbox"/> Roofing Material	<input type="checkbox"/> Floors	<input type="checkbox"/> Fenestration/Glazed Door

<sup>1</sup> FOOTNOTE: Doors that are more than one-half glass in area are considered Glazed Doors and should be documented on Table K with fenestration.

**Envelope Component Approach**

NRCC-ENV-E (Created 10/18)

CALIFORNIA ENERGY COMMISSION

**CERTIFICATE OF COMPLIANCE**

NRCC-ENV-E

Project Name:

Report Page:

Page # of ##

Project Address:

Date Prepared:

**C. COMPLIANCE RESULTS**

Table Instructions: If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. for guidance.

Opaque Envelope Components					Fenestration	Daylighting Spaces > 5,000 ft <sup>2</sup>	Compliance Results
Roof Assembly	Roofing Materials	Walls	Floors	Doors			
01	02	03	04	05	06	07	08
(See Table F)	(See Table G)	(See Table H)	(See Table I)	(See Table J)	(See Table K)	(See Table L)	

**D. EXCEPTIONAL CONDITIONS**

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

**E. ADDITIONAL REMARKS**

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

**F. ROOF ASSEMBLY SCHEDULE**

This Section Does Not Apply

**F. ROOF ASSEMBLY SCHEDULE**

Table Instructions: Complete this table to demonstrate compliance with prescriptive roof assembly requirements in [§140.3\(a\)1B](#) for new construction or additions, or [§141.0\(b\)2Biii](#) for alterations.

01	Indicate roof types included in the project:	<input type="checkbox"/> Framed	<input type="checkbox"/> SIPs	<input type="checkbox"/> Span Deck & Concrete	<input type="checkbox"/> Metal Panels	<input type="checkbox"/> Metal Building
----	--	---------------------------------	-------------------------------	---	---------------------------------------	---

**Framed Roof Assemblies**

01	<input type="checkbox"/>	Include Framed Roof Assemblies in Area-Weighted Average U-factor Calculation <sup>1</sup>				
02	03	04	05			06
Tag / Plan Detail ID	Name / Description	Status	Exception to Roof Insulation Requirements in <a href="#">§141.0(b)2Biii</a> (Alts. Only)			Occupancy Type

Table Continued



## CERTIFICATE OF COMPLIANCE

NRCC-ENV-E

Project Name:	Report Page:	Page # of ##
Project Address:	Date Prepared:	

Table Continued

							Reset	Add Row	Remove Last	
07	08	09	10	11	12	13	14	15		16
Tag / Plan Detail ID	How Design U-factor was determined	Roof Type & Frame Material	Frame Spacing & Depth	Cavity Insulation per Design	Continuous Insulation per Design	Thermal Performance Unit	Required Thermal Performance²	U-factor per Design		Area (ft²)
								per JA4		
								per Software/ Other		

<sup>1</sup> FOOTNOTE: If any individual assembly is non-compliant, assemblies may show compliance using an area-weighted calculation. Metal building roofs may not be combined with other roof types. The area-weighted compliance option is not available for alterations demonstrating compliance with R-values in [Table 141.0-C](#).

<sup>2</sup> If "R-value" is shown in cell 10 as the Thermal Performance Unit, the R-value shown here is for continuous insulation per [Table 141.0-C](#).

## Structural Insulated Panels (SIPs) Roof/Ceiling Assemblies

01	<input type="checkbox"/>	Include SIPs Roof assemblies in Area-Weighted Average U-factor Calculation¹				
02	03	04	05		06	
Tag / Plan Detail ID	Name/ Description	Status	Exception to Roof Insulation Requirements in <a href="#">§141.0(b)2Biii</a> (Alts. Only)		Occupancy Type	
		<div>▼</div>	<div>▼</div>		<div>▼</div>	
			Reset	Add Row	Remove Last	

07	08	09	10	11	12	13	14	15		16
Tag / Plan Detail ID	How Design U-factor was determined	Wood Framing Connection Type (Spline)	Panel Thickness (in.)	Core Insulation per Design	Continuous Insulation per Design	Thermal Performance Unit	Required Thermal Performance <sup>2</sup>	U-factor per Design		Area (ft²)
								per JA4		
								per Software/ Other		

## Envelope Component Approach

NRCC-ENV-E (Created 10/18)

CALIFORNIA ENERGY COMMISSION



## CERTIFICATE OF COMPLIANCE

NRCC-ENV-E

Project Name:

Report Page:

Page # of ##

Project Address:

Date Prepared:

<sup>1</sup> FOOTNOTE: If any individual assembly is non-compliant, assemblies may show compliance using an area-weighted calculation. Metal building roofs may not be combined with other roof types. The area-weighted compliance option is not available for alterations demonstrating compliance with R-values in [Table 141.0-C](#).

<sup>2</sup> If "R-value" is shown in cell 13 as the Thermal Performance Unit, the R-value shown here is for continuous insulation per [Table 141.0-C](#).

Span Deck & Concrete Roof Assemblies									
01	<input type="checkbox"/>	Include Span Deck & Concrete Roof assemblies in Area-Weighted Average U-factor Calculation <sup>1</sup>							
02	03	04	05				06		
Tag / Plan Detail ID	Name / Description	Status	Exception to Roof Insulation Requirements in <a href="#">§141.0(b)2Biii</a> (Alts. Only)				Occupancy Type		
		<input type="button" value="v"/>					<input type="button" value="v"/>	<input type="button" value="v"/>	
							<input type="button" value="Reset"/>	<input type="button" value="Add Row"/>	<input type="button" value="Remove Last"/>
07	08	09	10	11	12	13	14		15
Tag / Plan Detail ID	How Design U-factor was determined	Fireproofing	Concrete Topping Thickness (in)	Continuous Insulation per Design	Thermal Performance Unit	Required Thermal Performance <sup>2</sup>	U-factor per Design		Area (ft <sup>2</sup> )
	<input type="button" value="v"/>	<input type="button" value="v"/>	<input type="button" value="v"/>		<input type="button" value="v"/>		per JA4		
							per Software/ Other		

<sup>1</sup> FOOTNOTE: If any individual assembly is non-compliant, assemblies may show compliance using an area-weighted calculation. Metal building roofs may not be combined with other roof types. The area-weighted compliance option is not available for alterations demonstrating compliance with R-values in [Table 141.0-C](#).

<sup>2</sup> If "R-value" is shown in cell 12 as the Thermal Performance Unit, the R-value shown here is for continuous insulation per [Table 141.0-C](#).

Metal Panel Assemblies				
01	<input type="checkbox"/>	Include Metal Panel Roof assemblies in Area-Weighted Average U-factor Calculation <sup>1</sup>		
02	03	04	05	
Tag / Plan Detail ID	Name / Description	Status	Exception to Roof Insulation Requirements in <a href="#">§141.0(b)2Biii</a> (Alts. Only)	
		<input type="button" value="v"/>		

Table Continued

## Envelope Component Approach

NRCC-ENV-E (Created 10/18)

CALIFORNIA ENERGY COMMISSION



## CERTIFICATE OF COMPLIANCE

NRCC-ENV-E

Project Name:	Report Page:	Page # of ##
Project Address:	Date Prepared:	

Table Continued

						Reset	Add Row	Remove Last
07	08	09	10	11	12	13		
Tag / Plan Detail ID	How Design U-factor was determined	Panel Thickness (in)	Thermal Performance Unit	Required Thermal Performance <sup>2</sup>	U-factor per Design	Area (ft <sup>2</sup> )		
					per JA4			
					per Software/Other			

<sup>1</sup> FOOTNOTE: If any individual assembly is non-compliant, assemblies may show compliance using an area-weighted calculation. Metal building roofs may not be combined with other roof types. The area-weighted compliance option is not available for alterations demonstrating compliance with R-values in [Table 141.0-C](#).

Metal Building Roof Assemblies				
01	<input type="checkbox"/>	Calculate Area-Weighted Average U-factor for Metal Building Roof <sup>1</sup>		
02	03	04	05	06
Tag / Plan Detail ID	Name / Description	Status	Exception to Roof Insulation Requirements in <a href="#">§141.0(b)2Biii</a> (Alts. Only)	Occupancy Type

						Reset	Add Row	Remove Last
07	08	09	10	11	12	13	14	15
Tag / Plan Detail ID	How Design U-factor was determined	Insulation System	Cavity Insulation per Design	Continuous Insulation per Design	Thermal Performance Unit	Required Thermal Performance <sup>2</sup>	U-factor per Design	Area (ft <sup>2</sup> )
						per JA4		
						per Software/Other		

<sup>1</sup> FOOTNOTE: If any individual assembly is non-compliant, assemblies may show compliance using an area-weighted calculation. Metal building roofs may not be combined with other roof types. The area-weighted compliance option is not available for alterations demonstrating compliance with R-values in [Table 141.0-C](#).

<sup>2</sup> If "R-value" is shown in cell 10 as the Thermal Performance Unit, the R-value shown here is for continuous insulation per [Table 141.0-C](#).

Table Continued

**Envelope Component Approach**

NRCC-ENV-E (Created 10/18)

CALIFORNIA ENERGY COMMISSION



## CERTIFICATE OF COMPLIANCE

NRCC-ENV-E

Project Name:

Report Page:

Page # of ##

Project Address:

Date Prepared:

## Area-Weighted Average U-factor Compliance Calculation for Framed/SIPs/Span Deck &amp; Concrete/ Metal Panel Roofs

01	02	03	04	05
Roof Type	Total Area of Roof Type (ft <sup>2</sup> )	Area-weighted U-factor for Roof Type		Compliance Results Using Area-Weighted Calculation Option
		Required	Designed	
Total For All Roof Types:				

## Area-Weighted Average U-factor Compliance Calculation for Metal Building Roof

01	02	03	04	05
Roof Type	Total Area of Roof Type (ft <sup>2</sup> )	Area-weighted U-factor for Roof Type		Compliance Results Using Area-Weighted Calculation Option
		Required	Designed	
Metal Building Roof				

**G. RATED ROOFING MATERIAL (COOL ROOF)***This Section Does Not Apply***G. RATED ROOFING MATERIAL (COOL ROOF)**

Table Instructions: Complete this table to demonstrate compliance with prescriptive roof material requirements in [§140.3\(a\)1A](#) for new construction or additions, or [§141.0\(b\)2B](#) for alterations.

01	02	03	04	05	06	07
Tag / Plan Detail ID	Name / Description / Location	Status	Occupancy Type	Roof Slope	Roof Material	Compliance Method
				08	09	10
				Required Minimum Material Performance	Designed Material Performance	U-factor of Assembly
				Reflectance	Reflectance <sup>1</sup>	
				Emittance	Emittance	
				SRI	SRI	
				Reset		Add Row
						Remove Last

<sup>1</sup>FOOTNOTE: If Solar Reflectance (Initial) is indicated in column 07, enter the Initial Reflectance here and the form will convert it to a "Calculated Aged Solar Reflectance" when determining compliance.

## Envelope Component Approach

NRCC-ENV-E (Created 10/18)

CALIFORNIA ENERGY COMMISSION



## CERTIFICATE OF COMPLIANCE

NRCC-ENV-E

Project Name:

Report Page:

Page # of ##

Project Address:

Date Prepared:

## H. WALL ASSEMBLY SCHEDULE



This Section Does Not Apply

## H. WALL ASSEMBLY SCHEDULE



Table Instructions: Complete this table to demonstrate compliance with prescriptive wall assembly requirements in [§140.3\(a\)2](#) and [§140.3\(a\)3](#) for new construction or additions, or mandatory wall assembly requirements in [§141.0\(b\)1B](#) for alterations.

01	Indicate wall types included in the project: <sup>1</sup>	<input type="checkbox"/> Framed	<input type="checkbox"/> Mass (new only)	<input type="checkbox"/> Concrete Sandwich Panel (new only)	<input type="checkbox"/> SIPs	<input type="checkbox"/> ICF (new only)
		<input type="checkbox"/> Metal Panel	<input type="checkbox"/> Metal Building	<input type="checkbox"/> Spandrel/ Curtain Wall	<input type="checkbox"/> Straw Bale	<input type="checkbox"/> Log Home (new only)

<sup>1</sup>FOOTNOTE: Wall types indicated above as "(new only)" do not have Title 24, Part 6 requirements for alterations. New construction and additions do have requirements and should be clicked above and compliance demonstrated within this table.

Framed Walls										
01	<input type="checkbox"/>	Calculate Area-Weighted Average U-factor for Metal Framed Walls <sup>1</sup>								
02	<input type="checkbox"/>	Include Wood Framed Walls in Area-Weighted Average U-factor Calculation <sup>1</sup>								
03	04	05	06	07	08	09	10	11	12	13
Tag/Plan Detail ID	Occupancy & Status	How Design U-factor was determined	Location	Frame Material, Spacing & Depth	Cavity Insulation per Design	Continuous Insulation per Design	Thermal Performance Unit	Required Thermal Performance <sup>2</sup>	U-factor per Design	Area (ft <sup>2</sup> )
									per JA4	
									per Software/Other	
								Reset	Add Row	Remove Last

<sup>1</sup>FOOTNOTE: If any individual assembly is non-compliant, assemblies may show compliance using an area-weighted calculation. Metal framed walls may not be combined with other wall types. Wood framed walls are combined with SIPs, spandrel & curtain, metal panel and straw bale wall types. The area-weighted compliance option is not available for alterations demonstrating compliance with R-values in [Table 141.0-C](#).

<sup>2</sup> If "R-value" is shown in cell 10 as the Thermal Performance Unit, the R-value shown here is for cavity insulation per [§140.0\(b\)1B](#).

Mass Walls (new walls only)										
01	<input type="checkbox"/>	Calculate Area-Weighted Average U-factor for Mass Walls <sup>1</sup>								

Table Continued

## Envelope Component Approach

NRCC-ENV-E (Created 10/18)

CALIFORNIA ENERGY COMMISSION



## CERTIFICATE OF COMPLIANCE

NRCC-ENV-E

Project Name:

Report Page:

Page # of ##

Project Address:

Date Prepared:

Table Continued

02	03	04	05	06	07	08	09	10	11	12
Tag/Plan Detail ID	Occupancy Type	How Design U-factor was determined	Mass Information			Additional Insulation Info		Maximum U-factor Allowed <sup>2</sup>	U-factor per Design	Area (ft <sup>2</sup> )
			Mass Material	Fill Options	Thickness (in)	Frame Material & Thickness (in)	Cavity Insulation per Design			
									per JA4	
									per Software/Other	
								Reset	Add Row	Remove Last

<sup>1</sup> FOOTNOTE: If any individual assembly is non-compliant, assemblies may show compliance using an area-weighted calculation. Mass walls may not be combined with other wall types. Mass walls must meet mandatory insulation requirements in [§120.7\(b\)](#), but may area-weight to comply with prescriptive requirements in [Table 140.3](#) for new construction.

<sup>2</sup> Mass walls are defined as "light" or "heavy" depending on their Heat Capacity. Heat Capacity is determined in [Tables 4.3.5](#) and [4.3.6](#) in [Joint Appendix 4](#). Walls with Heat Capacity of 15 or greater are "heavy" while walls with Heat Capacity from 7 to less than 15 are "light". Walls with heat capacity less than 7 would be categorized as "Wood framed and Other" for compliance purposes.

Concrete Sandwich Panel Walls (new walls only)										
01	<input type="checkbox"/>	Calculate Area-Weighted Average U-factor for Concrete Sandwich Panel Walls <sup>1</sup>								
02	03	04	05	06	07	08	09	10	11	12
Tag/Plan Detail ID	Occupancy Type	How Design U-factor was determined	Mass Information		Insulation Thickness/ R-value			Maximum U-factor Allowed <sup>2</sup>	U-factor per Design	Area (ft <sup>2</sup> )
			Percent Concrete Web	Steel Penetrates Insulation?		Frame Material & Thickness (in)	Cavity Insulation per Design			
									per JA4	
									per Software/Other	
								Reset	Add Row	Remove Last

<sup>1</sup> FOOTNOTE: If any individual assembly is non-compliant, assemblies may show compliance using an area-weighted calculation. Concrete Sandwich Panel walls may not be combined with other wall types. Concrete Sandwich Panel walls must meet mandatory insulation requirements in [§120.7\(b\)](#), but may area-weight to comply with prescriptive requirements in [Table 140.3](#) for new construction.

<sup>2</sup> Mass walls are defined as "light" or "heavy" depending on their Heat Capacity. Heat Capacity is determined in [Tables 4.3.5](#) and [4.3.6](#) in [Joint Appendix 4](#). Walls with Heat Capacity of 15 or greater are "heavy" while walls with Heat Capacity from 7 to less than 15 are "light". Walls with heat capacity less than 7 would be categorized as "Wood framed and Other" for compliance purposes.

Table Continued

## Envelope Component Approach

NRCC-ENV-E (Created 10/18)

CALIFORNIA ENERGY COMMISSION



## CERTIFICATE OF COMPLIANCE

NRCC-ENV-E

Project Name:

Report Page:

Page # of ##

Project Address:

Date Prepared:

## Structural Insulated Panels (SIPs) Walls

01	<input type="checkbox"/>	Include SIPs Walls in Area-Weighted Average U-factor Calculation <sup>1</sup>									
02	03	04	05	06	07	08	09	10	11	12	
Tag/Plan Detail ID	Occupancy & Status	How Design U-factor was determined	Wood Framing Connection Type (Spline)	Panel Thickness (in.)	Core Insulation per Design	Continuous Insulation per Design	Thermal Performance Unit	Required Thermal Performance <sup>2</sup>	U-factor per Design		Area (ft <sup>2</sup> )
									per JA4		
									per Software/Other		
								Reset	Add Row	Remove Last	

<sup>1</sup> FOOTNOTE: If any individual assembly is non-compliant, assemblies may show compliance using an area-weighted calculation. SIP walls are combined with wood framed, spandrel & curtain, metal panel and straw bale wall types. The area-weighted compliance option is not available for alterations demonstrating compliance with R-values in [§141.0\(b\)1B3](#).

<sup>2</sup> If "R-value" is shown in cell 09 as the Thermal Performance Unit, the R-value shown here is for core insulation per [§141.0\(b\)1B3](#).

## Spandrel &amp; Curtain Walls

01	<input type="checkbox"/>	Include Spandrel/ Curtain Walls in Area-Weighted Average U-factor Calculation <sup>1</sup>								
02	03	04	05	06	07	08	09	10	11	
Tag/Plan Detail ID	Occupancy & Status	How Design U-factor was determined	Spandrel Type	Spandrel Panel Finish	Insulation R-value	Thermal Performance Unit	Required Thermal Performance	U-factor per Design		Area (ft <sup>2</sup> )
								per JA4		
								per Software/Other		
								Reset	Add Row	Remove Last

<sup>1</sup> FOOTNOTE: If any individual assembly is non-compliant, assemblies may show compliance using an area-weighted calculation. Spandrel/ Curtain walls are combined with wood framed, SIPs, metal panel and straw bale wall types. The area-weighted compliance option is not available for alterations demonstrating compliance with R-values in [§141.0\(b\)1B4](#).

## Envelope Component Approach

NRCC-ENV-E (Created 10/18)

CALIFORNIA ENERGY COMMISSION



## CERTIFICATE OF COMPLIANCE

NRCC-ENV-E

Project Name:

Report Page:

Page # of ##

Project Address:

Date Prepared:

## Metal Building Walls

01	<input type="checkbox"/>	Calculate Area-Weighted Average U-factor for Metal Building Walls <sup>1</sup>							
02	03	04	05	06	07	08	09	10	11
Tag/Plan Detail ID	Occupancy & Status	How Design U-factor was determined	Insulation System	Cavity Insulation per Design	Continuous Insulation per Design	Thermal Performance Unit	Required Thermal Performance <sup>2</sup>	U-factor per Design	Area (ft <sup>2</sup> )
								per JA4	
								per Software/Other	
							Reset	Add Row	Remove Last

<sup>1</sup> FOOTNOTE: If any individual assembly is non-compliant, assemblies may show compliance using an area-weighted calculation. Metal Building walls may not be combined with other wall types. The area-weighted compliance option is not available for alterations demonstrating compliance with R-value in [§141.0\(b\)1B1](#).

<sup>2</sup> If "R-value" is shown in cell 10 as the Thermal Performance Unit, the R-value shown here is for cavity insulation per [§141.0\(b\)1B1](#).

## Metal Panel Walls

01	<input type="checkbox"/>	Include Metal Panel Walls in Area-Weighted Average U-factor Calculation <sup>1</sup>						
02	03	04	05	06	07	08	09	
Tag/Plan Detail ID	Name/Description	Occupancy & Status	How Design U-factor was determined	Panel Thickness (in.)	Maximum U-factor Allowed	U-factor per Design	Area (ft <sup>2</sup> )	
						per JA4		
						per Software/Other		
						Reset	Add Row	Remove Last

<sup>1</sup> FOOTNOTE: If any individual assembly is non-compliant, assemblies may show compliance using an area-weighted calculation. Metal Panel walls are combined with wood framed, spandrel & curtain, SIPs and straw bale wall types. The area-weighted compliance option is not available for alterations demonstrating compliance with R-values in [§141.0\(b\)1B3](#).

## Envelope Component Approach

NRCC-ENV-E (Created 10/18)

CALIFORNIA ENERGY COMMISSION



## CERTIFICATE OF COMPLIANCE

NRCC-ENV-E

Project Name:

Report Page:

Page # of ##

Project Address:

Date Prepared:

## Log Home Walls (new walls only)

01	<input type="checkbox"/>	Calculate Area-Weighted Average U-factor for Log Home Walls <sup>1</sup>							
02	03	04	05	06	07	08	09	10	
Tag/Plan Detail ID	Occupancy Type	How Design U-factor was determined	Log Diameter (in)	Frame Material & Thickness (in)	Continuous Insulation per Design	Maximum U-factor Allowed <sup>2</sup>	U-factor per Design		Area (ft <sup>2</sup> )
							per JA4		
							per Software/Other		
						Reset	Add Row	Remove Last	

<sup>1</sup> FOOTNOTE: If any individual assembly is non-compliant, assemblies may show compliance using an area-weighted calculation. Log Home walls may not be combined with other wall types. Log Home walls must meet mandatory insulation requirements in §120.7(b), but may area-weight to comply with prescriptive requirements in [Table 140.3](#) for new construction.

<sup>2</sup> Log Home walls are defined as "wood framed and other" or "light" depending on their Heat Capacity. Heat Capacity is determined in [Table 4.3.11](#) in [Joint Appendix 4](#). Walls with Heat Capacity from 7 to less than 15 are "light". Walls with heat capacity less than 7 would be categorized as "Wood framed and Other" for compliance purposes.

## Straw Bale Walls

01	<input type="checkbox"/>	Include Straw Bale Walls in Area-Weighted Average U-factor Calculation <sup>1</sup>							
02	03	04	05	06	07	08	09	10	
Tag/Plan Detail ID	Name/Description	Occupancy & Status	How Design U-factor was determined	Insulation per Design	Thermal Performance Unit	Required Thermal Performance <sup>2</sup>	U-factor per Design		Area (ft <sup>2</sup> )
							per JA4		
							per Software/Other		
						Reset	Add Row	Remove Last	

<sup>1</sup> FOOTNOTE: If any individual assembly is non-compliant, assemblies may show compliance using an area-weighted calculation. Straw bale walls are combined with wood framed, spandrel & curtain, metal panel and SIPs wall types. The area-weighted compliance option is not available for alterations demonstrating compliance with R-values in [§141.0\(b\)1B3](#).

<sup>2</sup> If "R-value" is shown in cell 07 as the Thermal Performance Unit, the R-value shown here is for cavity insulation per [§141.0\(b\)1B3](#).

**Envelope Component Approach**

NRCC-ENV-E (Created 10/18)

CALIFORNIA ENERGY COMMISSION

**CERTIFICATE OF COMPLIANCE**

NRCC-ENV-E

Project Name:

Report Page:

Page # of ##

Project Address:

Date Prepared:

**Insulated Concrete Form Walls (new walls only)**

01	<input type="checkbox"/>	Calculate Area-Weighted Average U-factor for ICF Walls <sup>1</sup>							
02	03	04	05	06	07	08	09	10	11
Tag/Plan Detail ID	Occupancy Type	How Design U-factor was determined	ICF Type	Concrete Core Thickness (in)	Insulation Type	Insulation Thickness (in)	Maximum Allowed U-factor <sup>2</sup>	U-factor per Design	Area (ft <sup>2</sup> )
								per JA4	
								per Software/Other	
							Reset	Add Row	Remove Last

<sup>1</sup> FOOTNOTE: If any individual assembly is non-compliant, assemblies may show compliance using an area-weighted calculation. ICF walls may not be combined with other wall types. ICF walls must meet mandatory insulation requirements in [§120.7\(b\)](#), but may area-weight to comply with prescriptive requirements in [Table 140.3](#) for new construction.

<sup>2</sup> ICF walls are defined as "light" or "heavy" depending on their Heat Capacity. Heat Capacity is determined in [Table 4.3.13](#) in [Joint Appendix 4](#). Walls with Heat Capacity of 15 or greater are "heavy" while walls with Heat Capacity from 7 to less than 15 are "light".

**Area-Weighted Average U-factor Compliance Calculation for Metal Framed Walls**

01	02	03	04	05
Wall Type	Total Area of Wall Type (ft <sup>2</sup> )	Area-weighted U-factor for Wall Type		Compliance Results Using Area-Weighted Calculation Option
		Required	Designed	
Metal Framed				

**Area-Weighted Average U-factor Compliance Calculation for Mass Walls**

01	02	03	04	05	06
Wall Type	Total Area of Wall Type (ft <sup>2</sup> )	Mandatory U-factor	Area-weighted U-factor for Wall Type		Compliance Results Using Area-Weighted Calculation Option
		Required	Required	Designed	
Light Mass					
Heavy Mass					

**Area-Weighted Average U-factor Compliance Calculation for Wood Framed/ SIPs/ Spandrel/ Curtain/ Metal Panel/ Straw Bale Wall Types**

01	02	03	04	05
Wall Type	Total Area of Wall Type (ft <sup>2</sup> )	Area-weighted U-factor for Wall Type		Compliance Results Using Area-Weighted Calculation Option
		Required	Designed	

Table Continued

## Envelope Component Approach

NRCC-ENV-E (Created 10/18)

CALIFORNIA ENERGY COMMISSION



## CERTIFICATE OF COMPLIANCE

NRCC-ENV-E

Project Name:

Report Page:

Page # of ##

Project Address:

Date Prepared:

Table Continued

Total For All Wall Types:				

## Area-Weighted Average U-factor Compliance Calculation for Metal Building Walls

01	02	03	04	05
Wall Type	Total Area of Wall Type (ft <sup>2</sup> )	Area-weighted U-factor for Wall Type		Compliance Results Using Area-Weighted Calculation Option
		Required	Designed	
Metal Building				

## I. FLOOR ASSEMBLY SCHEDULE



This Section Does Not Apply

## I. FLOOR ASSEMBLY SCHEDULE



Table Instructions: Complete this table to demonstrate compliance with prescriptive floor assembly requirements in [§140.3\(a\)4](#) for new construction or additions, or mandatory floor assembly requirements in [§141.0\(b\)1C](#) for alterations.

01	Indicate floor types included in the project: <sup>1</sup>	<input type="checkbox"/> Framed	<input type="checkbox"/> SIPs (new only)	<input type="checkbox"/> Raised Mass	<input type="checkbox"/> Slab-on-grade (new only)
----	--	---------------------------------	--	--------------------------------------	---

<sup>1</sup> FOOTNOTE: Floor types indicated above as "(new only)" do not have Title 24, Part 6 requirements for alterations. New construction and additions do have requirements and should be clicked above and compliance demonstrated within this table.

## Framed Floors

01	<input type="checkbox"/>	Include Framed Floors in Area Weighted Calculation <sup>1</sup>								
02	03	04	05	06	07	08	09	10	11	12
Tag/Plan Detail ID	Occupancy & Status	How Design U-factor was determined	Crawlspace	Frame Material, Spacing & Depth	Cavity Insulation per Design	Continuous Insulation per Design	Thermal Performance Unit	Required Thermal Performance <sup>2</sup>	U-factor per Design	Area (ft <sup>2</sup> )
									per JA4	
									per Software/Other	
								Reset	Add Row	Remove Last

<sup>1</sup> FOOTNOTE: If any individual assembly is non-compliant, assemblies may show compliance using an area-weighted calculation. Framed floors are combined with SIPs and slab-on-grade floor types. The area-weighted compliance option is not available for alterations demonstrating compliance with R-values in [§141.0\(b\)1C1](#).

<sup>2</sup> If "R-value" is shown in cell 09 as the Thermal Performance Unit, the R-value shown here is for cavity insulation per [§141.0\(b\)1C1](#).

Table Continued

## Envelope Component Approach

NRCC-ENV-E (Created 10/18)

CALIFORNIA ENERGY COMMISSION



## CERTIFICATE OF COMPLIANCE

NRCC-ENV-E

Project Name:	Report Page:	Page # of ##
Project Address:	Date Prepared:	

Table Continued

Structural Insulated Panels (SIPs) Floors (new floors only)										
01	<input type="checkbox"/>	Include SIPs Floors in Area-Weighted Average U-factor Calculation <sup>1</sup>								
02	03	04	05	06	07	08	09	10	11	12
Tag/Plan Detail ID	Occupancy & Status	How Design U-factor was determined	Crawlspace	Wood Framing Connection Type (Spline)	Panel Thickness (in.)	Core Insulation per Design	Continuous Insulation per Design	Maximum U-factor Allowed	U-factor per Design	Area (ft <sup>2</sup> )
									per JA4	
									per Software/Other	
								Reset	Add Row	Remove Last

<sup>1</sup> FOOTNOTE: If any individual assembly is non-compliant, assemblies may show compliance using an area-weighted calculation. SIPs floors are combined with Framed and slab-on-grade floor types.

Raised Mass Floors									
01	<input type="checkbox"/>	Calculate Area-Weighted Average U-factor for Raised Mass Floors <sup>1</sup>							
02	03	04	05	06	07	08	09	10	11
Tag/Plan Detail ID	Name/Description	Occupancy & Status	How Design U-factor was determined	Insulation Location	Continuous Insulation per Design	Thermal Performance Unit	Required Thermal Performance <sup>2</sup>	U-factor per Design	Area (ft <sup>2</sup> )
								per JA4	
								per Software/Other	
							Reset	Add Row	Remove Last

<sup>1</sup> FOOTNOTE: If any individual assembly is non-compliant, assemblies may show compliance using an area-weighted calculation. Raised Mass floors may not be combined with other wall types. The area-weighted compliance option is not available for alterations demonstrating compliance with R-values in [§141.0\(b\)1C2](#) for high-rise residential and hotel/motel occupancies.

<sup>2</sup> If "R-value" is shown in cell 08 as the Thermal Performance Unit, the R-value shown here is for continuous insulation per [§141.0\(b\)1C2](#).

## Envelope Component Approach

NRCC-ENV-E (Created 10/18)

CALIFORNIA ENERGY COMMISSION



## CERTIFICATE OF COMPLIANCE

NRCC-ENV-E

Project Name:

Report Page:

Page # of ##

Project Address:

Date Prepared:

## Slab-on-Grade Floors (new floors only)

01	<input type="checkbox"/>	Include Slab-on-Grade Floors in Area-Weighted Average U-factor Calculation <sup>1</sup>							
02	03	04	05	06	07	08	09	10	11
Tag/Plan Detail ID	Occupancy Type	How Design U-factor was determined	Is slab heated?	Insulation Location	Insulation Depth (in)	Insulation R-value	Maximum U-factor Allowed	U-factor per Design	Area (ft <sup>2</sup> )
								per JA4	
								per Software/Other	
							Reset	Add Row	Remove Last

<sup>1</sup> FOOTNOTE: If any individual assembly is non-compliant, assemblies may show compliance using an area-weighted calculation. Slab-on-Grade floors are combined with Framed and SIPs floor types.

## Area-Weighted Average U-factor Compliance Calculation for Raised Mass Floors

01	02	03	04	05
Floor Type	Total Area of Floor Type (ft <sup>2</sup> )	Area-weighted U-factor for Floor Type		Compliance Results Using Area-Weighted Calculation Option
		Required	Designed	
Raised Mass				

## Area-Weighted Average U-factor Compliance Calculation for Framed/ SIPs/ Slab-on-Grade Floor Types

01	02	03	04	05
Floor Type	Total Area of Floor Type (ft <sup>2</sup> )	Area-weighted U-factor for Floor Type		Compliance Results Using Area-Weighted Calculation Option
		Required	Designed	
Total For All Floor Types:				

## J. EXTERIOR DOOR SCHEDULE



This Section Does Not Apply

## Envelope Component Approach

NRCC-ENV-E (Created 10/18)

CALIFORNIA ENERGY COMMISSION



## CERTIFICATE OF COMPLIANCE

NRCC-ENV-E

Project Name:

Report Page:

Page # of ##

Project Address:

Date Prepared:

## J. EXTERIOR DOOR SCHEDULE



*Table Instructions: Complete this table to demonstrate compliance with prescriptive exterior door requirements in [§140.3\(a\)7](#) for new construction or additions. Doors which are being replaced (alterations) do not need to be documented in this table because there are no Title 24, Part 6 requirements that apply. Exterior doors separate conditioned space from unconditioned space or from ambient air. Doors that are more than one-half glass in area are considered Glazed Doors and should be documented on Table K with fenestration per Table B.*

01	02	03	04	05	06	07
Tag/Plan Detail ID	Name/Description	Occupancy Type	Door Type	Door Insulation	Maximum Allowed U-factor	U-factor per Design
		<input type="button" value="v"/>	<input type="button" value="v"/>	<input type="button" value="v"/>		per JA4
				<input type="button" value="Reset"/>	<input type="button" value="Add Row"/>	<input type="button" value="Remove Last"/>

## K. FENESTRATION AND GLAZED DOOR SCHEDULE



*This Section Does Not Apply*

## K. FENESTRATION AND GLAZED DOOR SCHEDULE



*Table Instructions: Complete this table to demonstrate compliance with prescriptive fenestration requirements in [§140.3\(a\)5](#) for new construction or additions, or [§141.0\(b\)2A](#) for alterations. Exterior doors that are more than one-half glass in area are considered Glazed Doors and should be documented on this table with fenestration.*

01	Indicate fenestration types included in the project: <sup>1</sup>	<input type="checkbox"/> Vertical (alteration)	<input type="checkbox"/> Vertical (new)	<input type="checkbox"/> Skylights	<input type="checkbox"/> Glazed Doors (new only)
----	---	--	---	------------------------------------	--

<sup>1</sup> FOOTNOTE: Fenestration types indicated above as "(new only)" do not have Title 24, Part 6 requirements for alterations. New construction and additions do have requirements and should be clicked above and compliance demonstrated within this table.

## Vertical Fenestration- Total Building &amp; West Facing Area (New Construction &amp; Additions Only)

01	02	03	04	05
Elevation Item Tag/ Description	Orientation (Azimuth)	Gross Exterior Wall Area <sup>2</sup> (ft <sup>2</sup> )	Display Perimeter Length <sup>2</sup> (ft)	Vertical Fenestration Area per Design (ft <sup>2</sup> )
	<input type="button" value="v"/>			
		<input type="button" value="Reset"/>	<input type="button" value="Add Elevation"/>	<input type="button" value="Remove Last"/>

Table Continued

## Envelope Component Approach

NRCC-ENV-E (Created 10/18)

CALIFORNIA ENERGY COMMISSION



## CERTIFICATE OF COMPLIANCE

NRCC-ENV-E

Project Name:

Report Page:

Page # of ##

Project Address:

Date Prepared:

Table Continued

06	Maximum Allowed Vertical Fenestration (ft²)- All Orientations		07	Total Vertical Fenestration (ft²) per Design- All Orientations	
08	Maximum Allowed Vertical Fenestration (ft²)-West Facing		09	Total Vertical Fenestration (ft²) per Design- West Facing	

<sup>1</sup> FOOTNOTE: Orientation between 226 deg and 315 deg are considered "West Facing". A diagram has been provided in the [Nonresidential Compliance Manual](#) for visual reference.

<sup>2</sup> Do not include demising walls per [§140.3\(a\)5](#).

Vertical Fenestration- U-factor, Solar Heat Gain Coefficient (RSHGC/SHGC), Visible Transmittance (VT)									
01	<input type="checkbox"/>	Calculate Area-Weighted Average U-factor for Vertical Fenestration <sup>1</sup>							
02	<input type="checkbox"/>	Calculate Area-Weighted Average SHGC for Vertical Fenestration <sup>1</sup>							
03	<input type="checkbox"/>	Calculate Area-Weighted Average VT for Vertical Fenestration <sup>1</sup>							
04	05	06	07	08	09	10	11	12	13
Tag/Plan Detail ID	Fenestration Type	Occupancy & Status	(R)SHGC Compliance Method	VT Compliance Method	Calculation Method for Performance Values per Design <sup>2</sup>	Product Performance Unit	Required Product Performance	Product Performance per Design	Area (ft²)
						U-factor (max)			
					<input type="checkbox"/> Overhang used for RSHGC	(R)SHGC(max)			
						VT(min)			

NA6 Default Calculation					
14	15	16	17	18	19
Is the Window Projecting?	Frame Type	Glazing Type	Product Performance Unit	Center of Glass (COG) Product Performance	Product Performance per NA6
			U-factor		
			SHGC		
			VT		

## Envelope Component Approach

NRCC-ENV-E (Created 10/18)

CALIFORNIA ENERGY COMMISSION



## CERTIFICATE OF COMPLIANCE

NRCC-ENV-E

Project Name:

Report Page:

Page # of ##

Project Address:

Date Prepared:

## §110.6 Default Tables

20	21	22	23	24	25
Greenhouse/ Garden Window?	Is the Window Projecting?	Frame Type	Glazing Type	Glazing Tint	Product Performance per Default 110.6 Tables
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	U-factor
					SHGC
					VT

## Overhang Details for RSHGC per §140.3

26	27	28	29	30	31	32
SHGC of Window	Depth (ft)	Height from Bottom of Sill to Overhang (ft)	Left Extent <sup>3</sup> (ft)	Right Extent <sup>3</sup> (ft)	Orientation	RSHGC
					<input type="checkbox"/>	

33	Total Vertical Fenestration Area using NA6 Default: <sup>2</sup>		
----	--	--	--

Reset

Add Row

Remove Last

<sup>1</sup> FOOTNOTE: If any individual fenestration product is non-compliant, products may show compliance using an area-weighted calculation. Chromogenic glazing is not included in area-weighted calculations.

<sup>2</sup> The NA6 Default Calculation can only be used for buildings with less than 200 ft<sup>2</sup> of site built glazing. If the project has greater than 200 ft<sup>2</sup>, the only options for determining fenestration values are NFRC Certification or the Default Tables in [§110.6](#).

<sup>3</sup> Overhangs must extend past the left and right window the same distance as the depth of the overhang or greater to show an affect on the RSHGC. If an overhang does not meet this requirement, the affect of the overhang will be ignored.

## Skylights- Total Area

01	02	03	04
Atria > 55ft?	Gross Exterior Roof Area (ft <sup>2</sup> )	Maximum Allowed Skylight Area <sup>1</sup> (ft <sup>2</sup> )	Total Skylight Area per Design (ft <sup>2</sup> )
<input type="checkbox"/>			

<sup>1</sup> FOOTNOTE: 5% of total roof area allowed for areas other than atria > 55ft. 10% allowed for atria > 55ft.

## Envelope Component Approach

NRCC-ENV-E (Created 10/18)

CALIFORNIA ENERGY COMMISSION



## CERTIFICATE OF COMPLIANCE

NRCC-ENV-E

Project Name:

Report Page:

Page # of ##

Project Address:

Date Prepared:

## Skylights- U-factor, Solar Heat Gain Coefficient (SHGC), Visible Transmittance (VT)

01	<input type="checkbox"/>	Calculate Area-Weighted Average U-factor for Skylights <sup>1</sup>						
02	<input type="checkbox"/>	Calculate Area-Weighted Average SHGC for Skylights <sup>1</sup>						
03	<input type="checkbox"/>	Calculate Area-Weighted Average VT for Skylights <sup>1</sup>						
04	05	06	07	08	09	10	11	12
Tag/Plan Detail ID	Fenestration Type	Occupancy & Status	Calculation Method for Performance Values per Design <sup>2</sup>	Glaze/ Diffuser with Haze Value > 90%?	Product Performance Unit	Required Product Performance	Product Performance per Design	Area (ft <sup>2</sup> )
					U-factor (max)			
					SHGC(max)			
					VT(min)			

## NA6 Default Calculation

13	14	15	16
Frame Type	Product Performance Unit	Center of Glass (COG) Product Performance	Product Performance per NA6
	U-factor		
	SHGC		
	VT		

## §110.6 Default Tables

17	18	19	20	21
Operable/Fixed	Frame Type	Glazing Type	Glazing Tint	Product Performance per Default 110.6 Tables
				U-factor
				SHGC
				VT

Table Continued

## Envelope Component Approach

NRCC-ENV-E (Created 10/18)

CALIFORNIA ENERGY COMMISSION



## CERTIFICATE OF COMPLIANCE

NRCC-ENV-E

Project Name:

Report Page:

Page # of ##

Project Address:

Date Prepared:

22	Total Skylight Area using NA6 Default: <sup>2</sup>		
			Reset Add Row Remove Last

<sup>1</sup> FOOTNOTE: If any individual glazed door product is non-compliant, products may show compliance using an area-weighted calculation. Chromogenic glazing is not included in area-weighted calculations.

<sup>2</sup> The NA6 Default Calculation can only be used for buildings with less than 200 ft<sup>2</sup> of site built glazing. If the project has greater than 200 ft<sup>2</sup>, the only options for determining fenestration values are NFRC Certification or the Default Tables in [§110.6](#).

Glazed Doors- U-factor, Solar Heat Gain Coefficient (SHGC), Visible Transmittance (VT)							
01	<input type="checkbox"/>	Calculate Area-Weighted Average U-factor for Glazed Doors <sup>1</sup>					
02	<input type="checkbox"/>	Calculate Area-Weighted Average SHGC for Glazed Doors <sup>1</sup>					
03	<input type="checkbox"/>	Calculate Area-Weighted Average VT for Glazed Doors <sup>1</sup>					
04	05	06	07	08	09	10	11
Tag/Plan Detail ID	Name/Description	Occupancy Type	Calculation Method for Performance Values per Design <sup>2</sup>	Product Performance Unit	Required Product Performance	Product Performance per Design	Area (ft <sup>2</sup> )
				U-factor (max)			
				SHGC(max)			
				VT(min)			

NA6 Default Calculation			
12	13	14	15
Frame Type	Product Performance Unit	Center of Glass (COG) Product Performance	Product Performance per NA6
	U-factor		
	SHGC		
	VT		

## Envelope Component Approach

NRCC-ENV-E (Created 10/18)

CALIFORNIA ENERGY COMMISSION



## CERTIFICATE OF COMPLIANCE

NRCC-ENV-E

Project Name:

Report Page:

Page # of ##

Project Address:

Date Prepared:

§110.6 Default Tables			
16	17	18	19
Frame Type	Glazing Type	Glazing Tint	Product Performance per Default 110.6 Tables
▼	▼	▼	U-factor
			SHGC
			VT

20	Total Glazed Door Area using NA6 Default: <sup>2</sup>		
----	--	--	--

Reset

Add Row

Remove Last

<sup>1</sup> FOOTNOTE: If any individual glazed door product is non-compliant, products may show compliance using an area-weighted calculation.

<sup>2</sup> The NA6 Default Calculation can only be used for buildings with less than 200 ft<sup>2</sup> of site built glazing. If the project has greater than 200 ft<sup>2</sup>, the only options for determining fenestration values are NFRC Certification or the Default Tables in [§110.6](#).

## Area-Weighted Average U-factor, SHGC, VT Compliance Calculation for Vertical Fenestration and Glazed Doors

01	02	03	04	05
Product Performance Unit	Total Area of Fenestration (ft <sup>2</sup> )	Area-weighted Calculation for Fenestration		Compliance Results Using Area-Weighted Calculation Option
		Required	Designed	
U-Factor				
(R)SHGC				
VT				

## Area-Weighted Average U-factor, SHGC, VT Compliance Calculation for Skylights

01	02	03	04	05
Product Performance Unit	Total Area of Skylights (ft <sup>2</sup> )	Area-weighted Calculation for Skylights		Compliance Results Using Area-Weighted Calculation Option
		Required	Designed	
U-Factor				
(R)SHGC				
VT				

## Envelope Component Approach

NRCC-ENV-E (Created 10/18)

CALIFORNIA ENERGY COMMISSION



## CERTIFICATE OF COMPLIANCE

NRCC-ENV-E

Project Name:

Report Page:

Page # of ##

Project Address:

Date Prepared:

## L. DAYLIGHT IN LARGE ENCLOSED SPACES



This Section Does Not Apply

## L. DAYLIGHT IN LARGE ENCLOSED SPACES



Table Instructions: Complete this table to demonstrate compliance with prescriptive daylight zone requirements in [§140.3\(c\)](#) for new construction, additions, or alterations which install a new lighting system within climate zones 2-15. Enclosed spaces greater than 5,000ft<sup>2</sup> and under a roof with at least a 15ft ceiling height must be included in the table.

01	Plan Sheet Showing Daylit Zone:								
02	03	04	05	06	07	08	09	10	
Space Name	Compliance Method	Total Area of Space (ft <sup>2</sup> )	Skylit Daylit Zone Area per Design (ft <sup>2</sup> )	Primary Sidelit Daylit Zone Area per Design <sup>1</sup> (ft <sup>2</sup> )	Compliance with §140.3(c)1		Total Skylight Area per Design <sup>2</sup> (ft <sup>2</sup> )	Compliance with §140.3(c)4	OR
					Required Minimum Daylit Area (ft <sup>2</sup> )	Daylit Area per Design (ft <sup>2</sup> )		Skylight Area to Skylit Daylit Zone Area Ratio <sup>3</sup> (%)	
	<input type="text"/>								
						11			
						Alternate Compliance with §140.3(c)			
						Skylight Weighted Average VT <sup>2</sup>		Skylight Area x VT to Skylit Daylit Zone Area Ratio <sup>4</sup> (%)	
						Reset	Add Space	Remove Last	

<sup>1</sup> FOOTNOTE: Any area which falls within the Skylit Daylit Zone may not be double counted for the Primary Sidelit Daylit Zone.

<sup>2</sup> May be calculated by Table K Fenestration Schedule.

<sup>3</sup> Must be at least 3% to comply with [§140.3\(c\)4](#).

<sup>4</sup> Must be at least 1.5% to comply with [§140.3\(c\)4](#).

## Envelope Component Approach

NRCC-ENV-E (Created 10/18)

CALIFORNIA ENERGY COMMISSION



CERTIFICATE OF COMPLIANCE		NRCC-ENV-E
Project Name:	Report Page:	Page # of ##
Project Address:	Date Prepared:	

**M. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION**

*Table Instructions: Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, form user must provide an explanation to be added to Table D Exceptional Conditions. These documents must be provided to the building inspector during construction and can be found online at <http://www.energy.ca.gov/2015publications/CEC-400-2015-033/appendices/forms/NRCI>*

YES	NO	Form/Title	Field Inspector	
			Pass	Fail
<input checked="" type="radio"/>		NRCI-ENV-01-E - Must be submitted for all buildings.	<input type="checkbox"/>	<input type="checkbox"/>

**N. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE**

*Table Instructions: Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, form user must provide an explanation to be added to Table D Exceptional Conditions. These documents must be provided to the building inspector during construction and can be found online at <http://www.energy.ca.gov/2015publications/CEC-400-2015-033/appendices/forms/NRCA/>. Individuals who perform the field testing and verification work, and provide the information required for completion of the fenestration Certificate of Acceptance documentation are not required to be licensed professionals. However, the person who signs the Certificate of Acceptance document to certify compliance with the acceptance requirements shall be licensed as specified in Standards Section 10-103(a)4 and NA7.3.1.*

YES	NO	Form/Title	Field Inspector	
			Pass	Fail
<input type="radio"/>	<input checked="" type="radio"/>	NRCA-ENV-02-F - Must be submitted for all new, added or altered fenestration.	<input type="checkbox"/>	<input type="checkbox"/>

**Envelope Component Approach**

NRCC-ENV-E (Created 10/18)

CALIFORNIA ENERGY COMMISSION



CERTIFICATE OF COMPLIANCE		NRCC-ENV-E
Project Name:	Report Page:	Page # of ##
Project Address:	Date Prepared:	

**DOCUMENTATION AUTHOR'S DECLARATION STATEMENT**

Documentation Author Name:	Documentation Author Signature:
Company:	Signature Date:
Address:	CEA/ HERS Certification Identification (if applicable):
City/State/Zip:	Phone:

**RESPONSIBLE PERSON'S DECLARATION STATEMENT**

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name:	Responsible Designer Signature:
Company :	Date Signed:
Address:	License:
City/State/Zip:	Phone: